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L6	190	((active same (transaction$1 or job$1)) and migrat$4 and concurren$4 and @ad<"20010215")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/20 10:20
L7	7	6 and plurality and media and writeable	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/20 10:21
L8	0	7 and 2	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/20 10:21
L9	0	7 and 4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/20 10:21
L10	46	open$2 near2 transaction$1 and close$1 near2 transaction$1 and concurren$4 and @ad<"20010215"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/20 10:21
L11	138	plurality same ("magnetic hard disk" or "floppy diskette" or "re-writeable optical disk" or "re-writeable media" or ROM or EEPROM) same concurren$4 and @ad<"20010215"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/20 10:22

L12	2	11 and open$2 near2 transaction$1 and close$1 near2 transaction$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/20 10:22
L13	612	((active adj2 (transaction$1 or job$1)) and @ad<"20010215")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/20 10:23
L14	3	13 and (plurality same media same (write$3 or unwrite$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/20 10:24
L15	2	14 and concurren$2 and ("sufficient space" or "enough space" or space)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/20 10:24
L16	7	migration$ and (active and (transaction$1 or job$1)) and (("non-active" or "non active") and (transaction$1 or job$1)) and @ad<"20010215"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/20 10:25
L17	66	media near10 database and "stores attributes" and @ad<"20010215"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/20 10:26
L18	42	17 and arbitrary	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/20 10:26
L19	2763	(plurality same media same (write$3 or unwrite$3) and @ad<"20010215")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/20 10:27
L20	15	19 and concurren$3 same value and ("sufficient space" or "enough space" or space)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/12/20 10:27

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1 Laboratory for emulation and study of integrated and coordinated media communication

L. F. Ludwig, D. F. Dunn

August 1987 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM workshop on Frontiers in computer communications technology**, Volume 17 Issue 5

Full text available: pdf(1.05 MB) Additional Information: full citation, abstract, references, citings, index terms

In future telecommunications networks, understanding the issues of user-network control, Customer Premise Equipment (CPE) technologies, services and user applications is as important as the classical network problems of channel structure, switching, and transmission. This paper discusses a Bell Communications Research facility, the Integrated Media Architecture Laboratory (IMAL), designed to flexibly emulate a wide range of current and future network and CPE environments with a focus on mul ...

2 Polling-based media access protocols for use with smart adaptive array antennas

Srikanth V. Krishnamurthy, Anthony S. Acampora, Michele Zorzi

April 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 2

Full text available: pdf(271.34 KB) Additional Information: full citation, references, citings, index terms

Keywords: antenna, arrays, media, polling, protocols

3 Gesturing, moving and talking together: Shadow communication: system for embodied interaction with remote partners

Yoshiyuki Miwa, Chikara Ishibiki

November 2004 **Proceedings of the 2004 ACM conference on Computer supported cooperative work**

Full text available: pdf(7.22 MB) Additional Information: full citation, abstract, references, index terms

"Shadow Communication" system has been developed allowing others to communicate by means of their "shadows" in remote space. This is designed so that each participant's shadow enters into a space through a semi-transparent screen and interacts with another subject's shadow. This interaction occurs at a common 'stage' (a co-existing space) that can be self-organized. The interaction takes place in a spatial relationship ("ma"-

perceptive distance or "Maai" in Japa ...

Keywords: co-existing space (*"Ba"*), collaborative drawing, embodied interaction, inter-group communication, shadow, spatial relationship (*"ma"*- perceptive distance)

4 Continuous display using heterogeneous disk-subsystems
Roger Zimmermann, Shahram Ghandeharizadeh
November 1997 **Proceedings of the fifth ACM international conference on Multimedia**
Full text available: pdf(2.32 MB) Additional Information: full citation, references, citings, index terms

Keywords: continuous media servers, continuous media storage systems, disk arrays, heterogeneous disk subsystems

5 A comparison of alternative continuous display techniques with heterogeneous multi-zone disks
Shahram Ghandeharizadeh, Seon Ho Kim
November 1999 **Proceedings of the eighth international conference on Information and knowledge management**
Full text available: pdf(1.10 MB) Additional Information: full citation, abstract, references, index terms

A number of recent technological trends have made data intensive applications such as continuous media (audio and video) servers a reality. These servers are expected to play an important role in applications such as video-on-demand, digital library, news-on-demand, distance learning, etc. Continuous media applications are data intensive and might require storage subsystems that consist of hundreds of (multi-zone) disk drives. With the current technological trends, a homogeneous disk subsys ...

6 Brave new topics - session 2: from context to content: leveraging contextual metadata to infer multimedia content: Context for semantic metadata
Kenneth Haase
October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**
Full text available: pdf(530.90 KB) Additional Information: full citation, abstract, references, index terms

This article argues for the growing importance of quality metadata and the equation of that quality with precision and semantic grounding. Such semantic grounding requires metadata that derives from intentional human intervention as well as mechanistic measurement of content media. In both cases, one chief problem in the automatic generation of semantic metadata is ambiguity leading to the overgeneration of inaccurate annotations. We look at a particular richly annotated image collection to s ...

Keywords: context, disambiguation, information retrieval, metadata, multimedia databases

7 Criticism as an approach to interface aesthetics
Olav W. Bertelsen, Søren Pold
October 2004 **Proceedings of the third Nordic conference n Human-computer interaction**
Full text available: pdf(211.19 KB) Additional Information: full citation, abstract, references, index terms

In this paper we discuss the re-orientation of human-computer interaction as an aesthetic

field. We argue that mainstream approaches lack of general openness and ability to assess experience aspects of interaction, but that this can indeed be remedied. We introduce the concept of interface criticism as a way to turn the conceptual re-orientation into handles for practical design, and we present and discuss an interface criticism guide.

Keywords: formative assessment, interface aesthetics, interface criticism

8 Creating digital libraries together---collaboration, multimodality, and plurality
Anders Hedman
June 1999 **ACM SIGCSE Bulletin , Proceedings of the 4th annual SIGCSE/SIGCUE ITiCSE conference on Innovation and technology in computer science education**, Volume 31 Issue 3
Full text available: pdf(476.79 KB) Additional Information: full citation, abstract, references, index terms

Many have tried to answer the question of what a digital library is and how such libraries should be built. But, in a sense the question of how to construct digital libraries as well defined entities is misguided from the beginning. There are many approaches to building digital libraries [7, 18, 4] and each approach must be understood from within a context. Some contexts such as information retrieval and digitizing of existing materials have received much attention [12, 22, 18, 17], while other ...

Keywords: collaboration, digital libraries, infrastructure, multimodality

9 "Smart clothing": wearable multimedia computing and "personal imaging" to restore the technological balance between people and their environments
Steve Mann
February 1997 **Proceedings of the fourth ACM international conference on Multimedia**
Full text available: pdf(2.18 MB) Additional Information: full citation, references, citings, index terms

Keywords: augmented reality, mediated reality, mobile multimedia, pencigraphic image compositing, personal imaging, smart spaces, ubiquitous computing, video orbits, video surveillance, wearable computing

10 Beyond the electronic book: a critique of hypertext rhetoric
Stuart Moulthrop
September 1991 **Proceedings of the third annual ACM conference on Hypertext**
Full text available: pdf(680.93 KB) Additional Information: full citation, references, citings, index terms

11 Virtual environments and interactivity: windows to the future
C. Conn, J. Lanier, M. Minsky, S. Fisher, A. Druin
July 1989 **ACM SIGGRAPH Computer Graphics , ACM SIGGRAPH 89 Panel Proceedings**, Volume 23 Issue 5
Full text available: pdf(1.55 MB) Additional Information: full citation, abstract, index terms

I really apologize. I promised everyone I would come out wearing the data suit, but it just slipped my mind and I never got around to it. Actually Marvin Minsky was saying that the thing to do would be to come out with nothing on because that would be the perfect

interface to the computer. So I kind of shunned the whole thing off at that point.We just heard Nicholas Negroponte ask us -- "how do we communicate with computers?" Well, that's why this panel is here today. We'll be discussing virtual ...

12 In search of information in visual media
Amarnath Gupta, Simone Santini, Ramesh Jain
December 1997 **Communications of the ACM**, Volume 40 Issue 12
Full text available: pdf(1.58 MB) Additional Information: full citation, references, citings, index terms

13 RAW: conveying minimally-mediated impressions of everyday life with an audio-photographic tool
Joëlle Bitton, Stefan Agamanolis, Matthew Karau
April 2004 **Proceedings of the 2004 conference on Human factors in computing systems**
Full text available: pdf(500.36 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper traces the development of RAW, a system combining a tool and a process for capturing and conveying audiovisual impressions of everyday life. The project aims to enable a relationship between the user of the tool and an audience in a different place or time with an absolute minimum of editorial mediation by a third party. The tool itself incorporates a digital camera and a binaural audio recording device that captures the minute of sound before and after a picture is taken. To inform t ...

Keywords: Africa, Mali, audiophotography, binaural sound recording, contextual audio, cultural exchange, everyday life, memory, multicultural studies, photography, storytelling, unedited media

14 Social choice theory and distributed decision making
Arnold B. Urken
April 1988 **ACM SIGOIS Bulletin , Conference Sponsored by ACM SIGOIS and IEEECS TC-OA on Office information systems**, Volume 9 Issue 2-3
Full text available: pdf(1.24 MB) Additional Information: full citation, abstract, references, citings, index terms

Strategies of distributed decision making based on social choice theory can be used to create a balance between organizational complexity and uncertainty. Although Group Decision Support Systems (GDSS's) have included options for making human collective choices, their design has not been based on optimal rules. Social choice theory can also be used to improve the reliability of decisions made by nodes in distributed computer networks. Three examples illustrate the application of this theory ...

15 Personal computing
Rosalie Steier
July 1989 **Communications of the ACM**, Volume 32 Issue 7
Full text available: pdf(1.73 MB) Additional Information: full citation, references, index terms

16 Optical disks (panel session): effecting successful integration
D'Ellen Bardes, Patrick Call, Michael S. Theis, Taroon C. Kamdar
October 1985 **Proceedings of the 1985 ACM annual conference on The range of computing : mid-80's perspective: mid-80's perspective**

Full text available: pdf(395.46 KB) Additional Information: full citation, references, index terms

17 Preliminary observations about music and decentralized environments
Dante Tanzi
October 1999 **Proceedings of the third conference on Creativity & cognition**
Full text available: pdf(671.06 KB) Additional Information: full citation, references, index terms

Keywords: context and meaning permanence, contextual preeminence, cyberspace, linguistic codes, music, musical object, musical process, time matter

18 The beauty of simplicity
Kristiina Karvonen
November 2000 **Proceedings on the 2000 conference on Universal Usability**
Full text available: pdf(653.38 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we show how discussion about design quality or even usability is often discussion about aesthetics. First, we introduce some definitions of beauty in aesthetics. Then, we introduce how the beauty of the Web design affects the feeling of online trust, and bring forth observations about this design quality as an aesthetic notion. As a result, we present how simplicity and beauty affect the user's experience and interpretation of the design, and contemplate on how this perception m ...

Keywords: Web usability, aesthetics, beautiful, cross-cultural HCI, design quality, pleasure, trust, user interface design

19 Modelling experience: Theoretical foundations for experiential systems design
Marc Davis
November 2003 **Proceedings of the 2003 ACM SIGMM workshop on Experiential telepresence**
Full text available: pdf(402.55 KB) Additional Information: full citation, abstract, references, index terms

As multimedia researchers analyze and design "experiential systems' there is a pressing need to place that work on a solid theoretical foundation. Without careful analysis of the objects and methods, terminology, and conceptual frameworks of experiential systems design, misconceptions about what experiences are and how they can be computationally addressed can allow research to proceed in less fruitful directions. This paper addresses core theoretical issues in experiential systems design about ...

Keywords: aesthetics, cognitive science, communications theory, conduit metaphor, context, experiential systems, hermeneutics, interdisciplinary research, phenomenology, reader-response, reception aesthetics, representation

20 Trust and traceability in electronic commerce
Dennis D. Steinauer, Shukri A. Wakid, Stanley Rasberry
September 1997 **StandardView**, Volume 5 Issue 3
Full text available: pdf(46.16 KB) Additional Information: full citation, references, citings

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1 Providing transactional properties for migrating workflows
October 2004 **Mobile Networks and Applications**, Volume 9 Issue 5

Full text available: pdf(138.89 KB) Additional Information: full citation, abstract, references, index terms

Current workflow management systems have several limitations that need to be addressed by the research community. This paper deals with two of them: the lack of flexibility necessary in a changing business environment, and the lack of transactional guarantees for workflow applications.

To handle the dynamic character of current business environments and processes, we have proposed the Migrating Workflow Model. A migrating workflow transfers its code (specification) and its execution st ...

Keywords: migrating workflows, mobile environment, transactions, workflows

2 Concurrency and distribution in object-oriented programming
Jean-Pierre Briot, Rachid Guerraoui, Klaus-Peter Lohr
September 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 3

Full text available: pdf(289.34 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper aims at discussing and classifying the various ways in which the object paradigm is used in concurrent and distributed contexts. We distinguish among the library approach, the integrative approach, and the reflective approach. The library approach applies object-oriented concepts, as they are, to structure concurrent and distributed systems through class libraries. The integrative approach consists of merging concepts such as obj ...

Keywords: concurrency, distribution, integration, libraries, message passing, object, reflection

3 Integrated concurrency control and recovery mechanisms: design and performance evaluation
Rakesh Agrawal, David J. Dewitt
December 1985 **ACM Transacti ns on Database Systems (TODS)**, Volume 10 Issue 4

Full text available: pdf(2.70 MB) Additional Information: full citation, abstract, references, citings, index terms, review

In spite of the wide variety of concurrency control and recovery mechanisms proposed during the past decade, the behavior and the performance of various concurrency control and recovery mechanisms remain largely not well understood. In addition, although concurrency control and recovery mechanisms are intimately related, the interaction between them has not been adequately explored. In this paper, we take a unified view of the problems associated with concurrency control and recovery for tr ...

4 ARIES: a transaction recovery method supporting fine-granularity locking and partial rollbacks using write-ahead logging

C. Mohan, Don Haderle, Bruce Lindsay, Hamid Pirahesh, Peter Schwarz

March 1992 **ACM Transactions on Database Systems (TODS)**, Volume 17 Issue 1

Full text available: pdf(5.23 MB) Additional Information: full citation, abstract, references, citings, index terms, review

DB2TM, IMS, and TandemTM systems. ARIES is applicable not only to database management systems but also to persistent object-oriented languages, recoverable file systems and transaction-based operating systems. ARIES has been implemented, to varying degrees, in IBM's OS/2TM Extended Edition Database Manager, DB2, Workstation Data Save Facility/VM, Starburst and QuickSilver, and in the University of Wisconsin's EXODUS and Gamma d ...

Keywords: buffer management, latching, locking, space management, write-ahead logging

5 A pre-serialization transaction management technique for mobile multidatabases

December 2000 **Mobile Networks and Applications**, Volume 5 Issue 4

Full text available: pdf(161.85 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Rapid advances in hardware and wireless communication technology have made the concept of mobile computing a reality. Thus, evolving database technology needs to address the requirements of the future mobile user. The frequent disconnection and migration of the mobile user violate underlying presumptions about connectivity that exist in wired database systems and introduce new issues that affect transaction management. In this paper, we present the Pre‐Serialization (PS) tra ...

6 Special issue on persistent object systems: Orthogonally persistent object systems

Malcolm Atkinson, Ronald Morrison

July 1995 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 4 Issue 3

Full text available: pdf(5.02 MB) Additional Information: full citation, abstract, references, citings

Persistent Application Systems (PASs) are of increasing social and economic importance. They have the potential to be long-lived, concurrently accessed, and consist of large bodies of data and programs. Typical examples of PASs are CAD/CAM systems, office automation, CASE tools, software engineering environments, and patient-care support systems in hospitals. Orthogonally persistent object systems are intended to provide improved support for the design, construction, maintenance, and operation o ...

Keywords: database programming languages, orthogonal persistence, persistent application systems, persistent programming languages

7 Distributed, object-based programming systems

Roger S. Chin, Samuel T. Chanson
March 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 1

Full text available: pdf(2.97 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The development of distributed operating systems and object-based programming languages makes possible an environment in which programs consisting of a set of interacting modules, or objects, may execute concurrently on a collection of loosely coupled processors. An object-based programming language encourages a methodology for designing and creating a program as a set of autonomous components, whereas a distributed operating system permits a collection of workstations or personal computers ...

Keywords: capability scheme, distributed operating systems, error recovery, method invocation, nested transaction, object model, object reliability, object-based programming languages, processor allocation, resource management, synchronization, transaction

8 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

9 Overview of multidatabase transaction management

Yuri Breitbart, Hector Garcia-Molina, Avi Silberschatz
October 1992 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 1 Issue 2

Full text available: pdf(3.23 MB) Additional Information: full citation, abstract, references, citings

A multidatabase system (MDBS) is a facility that allows users access to data located in multiple autonomous database management systems (DBMSs). In such a system, *global transactions* are executed under the control of the MDBS. Independently, *local transactions* are executed under the control of the local DBMSs. Each local DBMS integrated by the MDBS may employ a different transaction management scheme. In addition, each local DBMS has complete control over all transactions (global a ...

Keywords: multidatabase, recovery, reliability, serializability, transaction, two-level serializability

10 Two-phase locking performance and its thrashing behavior

Alexander Thomasian
December 1993 **ACM Transactions on Database Systems (TODS)**, Volume 18 Issue 4

Full text available: pdf(3.22 MB) Additional Information: full citation, references, citings, index terms

Keywords: concurrency control, data contention, load control, thrashing, two-phase locking

11 Computation migration: enhancing locality for distributed-memory parallel systems
Wilson C. Hsieh, Paul Wang, William E. Weihl
July 1993 **ACM SIGPLAN Notices , Proceedings of the fourth ACM SIGPLAN symposium on Principles and practice of parallel pr gramming**, Volume 28 Issue 7
Full text available: pdf(1.23 MB) Additional Information: full citation, abstract, references, citings, index terms

We describe computation migration, a new technique that is based on compile-time program transformations, for accesing remote data in a distributed-memory parallel system. In contrast with RPC-style access, where the access is performed remotely, and with data migration, where the data is moved so that it is local, computation migration moves part of the current thread to the processor where the data resides. The access is performed at the remote processor, and the migrated ...

12 Multidatabase systems: Overview of multidatabase transaction management
Yuri Breitbart, Hector Garcia-Molina, Avi Silberschatz
November 1992 **Proceedings of the 1992 conference of the Centre for Advanced Studies on Collaborative research - Volume 2**
Full text available: pdf(3.06 MB) Additional Information: full citation, abstract, references

A multidatabase system (MDBS) is a facility that allows users access to data located in multiple autonomous database management systems (DBMSs). In such a system, *global transactions* are executed under the control of the MDBS. Independently, *local transactions* are executed under the control of the local DBMSs. Each local DBMS integrated by the MDBS may employ a different transaction management scheme. In addition, each local DBMS has complete control over all transactions (global a ...

13 Process migration
September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3
Full text available: pdf(1.24 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Process migration is the act of transferring a process between two machines. It enables dynamic load distribution, fault resilience, eased system administration, and data access locality. Despite these goals and ongoing research efforts, migration has not achieved widespread use. With the increasing deployment of distributed systems in general, and distributed operating systems in particular, process migration is again receiving more attention in both research and product development. As hi ...

Keywords: distributed operating systems, distributed systems, load distribution, process migration

14 Recovery protocols for shared memory database systems
Lory D. Molesky, Krithi Ramamritham
May 1995 **ACM SIGMOD Record , Proceedings of the 1995 ACM SIGMOD international conference on Management of data**, Volume 24 Issue 2
Full text available: pdf(1.65 MB) Additional Information: full citation, abstract, references, index terms

Significant performance advantages can be gained by implementing a database system on a cache-coherent shared memory multiprocessor. However, problems arise when failures occur. A single node (where a *node* refers to a processor/memory pair) crash may require a reboot of the entire shared memory system. Fortunately, shared memory multiprocessors that isolate individual node failures are currently being developed. Even with these, because of the side effects of the cache coherency protocol, ...

15 Integrating temporal, real-time, an active databases

Krithi Ramamritham, Raju Sivasankaran, John A. Stankovic, Don T. Towsley, Ming Xiong

March 1996 **ACM SIGMOD Record**, Volume 25 Issue 1

Full text available: pdf(497.04 KB) Additional Information: full citation, abstract

To meet the needs of many real-world control applications, concepts from Temporal, Real-Time, and Active Databases must be integrated: Since the system's data is supposed to reflect the environment being controlled, they must be updated frequently to maintain temporal validity; Many activities, including those that perform the updates, work under time constraints; The occurrence of events, for example, emergency events, trigg ...

16 Organizing long-running activities with triggers and transactions

Umeshwar Dayal, Meichun Hsu, Rivka Ladin

May 1990 **ACM SIGMOD Record , Proceedings of the 1990 ACM SIGMOD international conference on Management of data**, Volume 19 Issue 2

Full text available: pdf(1.42 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper addresses the problem of organising and controlling activities that involve multiple steps of processing and that typically are of long duration. We explore the use of triggers and transactions to specify and organize such long-running activities. Triggers offer data- or event-driven specification of control flow, and thus provide a flexible and modular framework with which the control structures of the activities can be extended or modified. We describe a model based on event-co ...

17 Locality, causality and continuations

Christian Queinnec

July 1994 **ACM SIGPLAN Lisp Pointers , Proceedings of the 1994 ACM conference on LISP and functional programming**, Volume VII Issue 3

Full text available: pdf(1.35 MB) Additional Information: full citation, abstract, references, index terms

Concurrency and distribution are topics exacerbated by the omnipresence of Internet. Although many languages address these topics, few offer a real opportunity to control and coordinate widely spread dynamic computations. This paper presents such a language and its prominent features. Besides explaining the software architecture of the implementation (based on objects and generic functions), it also presents an original coherency protocol for shared mutable variables.We first rec ...

18 Parallel execution of prolog programs: a survey

Gopal Gupta, Enrico Pontelli, Khayri A.M. Ali, Mats Carlsson, Manuel V. Hermenegildo

July 2001 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 23 Issue 4

Full text available: pdf(1.95 MB) Additional Information: full citation, abstract, references, citings, index terms

Since the early days of logic programming, researchers in the field realized the potential for exploitation of parallelism present in the execution of logic programs. Their high-level nature, the presence of nondeterminism, and their referential transparency, among other characteristics, make logic programs interesting candidates for obtaining speedups through parallel execution. At the same time, the fact that the typical applications of logic programming frequently involve irregular computatio ...

Keywords: Automatic parallelization, constraint programming, logic programming, parallelism, prolog

19 Higher-order distributed objects

Henry Cejtin, Suresh Jagannathan, Richard Kelsey
September 1995 **ACM Transacti ns on Programming Languages and Systems (TOPLAS)**, Volume 17 Issue 5

Full text available: pdf(2.33 MB) Additional Information: full citation, abstract, references, citings, index terms, review

We describe a distributed implementation of Scheme that permits efficient transmission of higher-order objects such as closures and continuations. The integration of distributed communication facilities within a higher-order programming language engenders a number of new abstractions and paradigms for distributed computing. Among these are user-specified load-balancing and migration policies for threads, incrementally linked distributed computations, and parameterized client-server applicat ...

Keywords: concurrency, continuations, higher-order languages, message-passing

20 Migrating sockets---end system support for networking with quality of service guarantees

David K. Y. Yau, Simon S. Lam
December 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 6

Full text available: pdf(369.10 KB) Additional Information: full citation, references, index terms

Keywords: CPU scheduling, bandwidth scheduling, packet demultiplexing, quality of service guarantees, user level protocol

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1 Polling-based media access protocols for use with smart adaptive array antennas
Srikanth V. Krishnamurthy, Anthony S. Acampora, Michele Zorzi
April 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 2
Full text available: pdf(271.34 KB) Additional Information: full citation, references, citings, index terms

Keywords: antenna, arrays, media, polling, protocols

2 The treatment of state in optimistic systems
David Bruce
July 1995 **ACM SIGSIM Simulation Digest , Proceedings of the ninth workshop on Parallel and distributed simulation**, Volume 25 Issue 1
Full text available: pdf(1.59 MB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms

Optimistic computation methods typically save copies of objects' state information, so that they can recover from erroneous "over-optimistic" computations. Such state saving is generally time and space consuming, and can be rather complicated both to implement and to use.I show how the data structure community's theory of persistence can be used not only to analyse and explain the treatment of state in optimistic systems, but also as a simple yet general mechanism for ...

Keywords: optimistic methods, parallel discrete event simulation, persistent data structures, state saving

3 Self-stabilizing symmetry breaking in constant-space (extended abstract)
Alain Mayer, Yoram Ofek, Rafail Ostrovsky, Moti Yung
July 1992 **Proceedings of the twenty-fourth annual ACM symposium on Theory of computing**
Full text available: pdf(1.56 MB) Additional Information: full citation, abstract, references, citings, index terms

We investigate the problem of self-stabilizing round-robin token management scheme on an anonymous bidirectional ring of identical processors, where each processor is an

asynchronous probabilistic (coin-flipping) finite state machine which sends and receives messages. We show that the solution to this problem is equivalent to symmetry breaking (i.e., leader election). Requiring only constant-size messages and message-passing model has practical implications: our solution can be implemented ...

4 Continuous display using heterogeneous disk-subsystems

Roger Zimmermann, Shahram Ghandeharizadeh

November 1997 **Proceedings of the fifth ACM international conference on Multimedia**

Full text available: pdf(2.32 MB) Additional Information: full citation, references, citings, index terms

Keywords: continuous media servers, continuous media storage systems, disk arrays, heterogeneous disk subsystems

5 System-level power optimization: techniques and tools

Luca Benini, Giovanni de Micheli

April 2000 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 5 Issue 2

Full text available: pdf(385.22 KB) Additional Information: full citation, abstract, references, citings, index terms

This tutorial surveys design methods for energy-efficient system-level design. We consider electronic sytems consisting of a hardware platform and software layers. We consider the three major constituents of hardware that consume energy, namely computation, communication, and storage units, and we review methods of reducing their energy consumption. We also study models for analyzing the energy cost of software, and methods for energy-efficient software design and compilation. This survery ...

6 A structural view of the Cedar programming environment

Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann

August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 8 Issue 4

Full text available: pdf(6.32 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

7 Probabilistic predicate transformers

Carroll Morgan, Annabelle McIver, Karen Seidel

May 1996 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 18 Issue 3

Full text available: pdf(301.82 KB) Additional Information: full citation, abstract, references, citings, index terms

Probabilistic predicates generalize standard predicates over a state space; with probabilistic predicate transformers one thus reasons about imperative programs in terms of probabilistic pre- and postconditions. Probabilistic healthiness conditions generalize the standard ones, characterizing "real" probabilistic programs, and are based on a connection with an underlying relational model for probabilistic execution; in both contexts demonic nondeterminism coexists with probabili ...

Keywords: Galois connection, nondeterminism, predicate transformers, probability, program derivation, refinement, weakest preconditions

8 Laboratory for emulation and study of integrated and coordinated media communication

L. F. Ludwig, D. F. Dunn

August 1987 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM workshop on Frontiers in computer communications technology**, Volume 17 Issue 5

Full text available: pdf(1.05 MB) Additional Information: full citation, abstract, references, citings, index terms

In future telecommunications networks, understanding the issues of user-network control, Customer Premise Equipment (CPE) technologies, services and user applications is as important as the classical network problems of channel structure, switching, and transmission. This paper discusses a Bell Communications Research facility, the Integrated Media Architecture Laboratory (IMAL), designed to flexibly emulate a wide range of current and future network and CPE environments with a focus on mul ...

9 A new adaptive MAC layer protocol for broadband packet wireless networks in harsh fading and interference environments

Anthony S. Acampora, Srikanth V. Krishnamurthy

June 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 3

Full text available: pdf(171.56 KB) Additional Information: full citation, references, citings, index terms

Keywords: media access protocols, wireless

10 Criticism as an approach to interface aesthetics

Olav W. Bertelsen, Søren Pold

October 2004 **Proceedings of the third Nordic conference on Human-computer interaction**

Full text available: pdf(211.19 KB) Additional Information: full citation, abstract, references, index terms

In this paper we discuss the re-orientation of human-computer interaction as an aesthetic field. We argue that mainstream approaches lack of general openness and ability to assess experience aspects of interaction, but that this can indeed be remedied. We introduce the concept of interface criticism as a way to turn the conceptual re-orientation into handles for practical design, and we present and discuss an interface criticism guide.

Keywords: formative assessment, interface aesthetics, interface criticism

11 A comparison of alternative continuous display techniques with heterogeneous multi-zone disks

Shahram Ghandeharizadeh, Seon Ho Kim

November 1999 **Proceedings of the eighth international conference on Information and knowledge management**

Full text available: pdf(1.10 MB) Additional Information: full citation, abstract, references, index terms

A number of recent technological trends have made data intensive applications such as

continuous media (audio and video) servers a reality. These servers are expected to play an important role in applications such as video-on-demand, digital library, news-on-demand, distance learning, etc. Continuous media applications are data intensive and might require storage subsystems that consist of hundreds of (multi-zone) disk drives. With the current technological trends, a homogeneous disk subsys ...

12 Exploiting space and location as a design framework for interactive mobile systems
Alan Dix, Tom Rodden, Nigel Davies, Jonathan Trevor, Adrian Friday, Kevin Palfreyman
September 2000 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 7 Issue 3
Full text available: pdf(282.97 KB) Additional Information: full citation, abstract, references, citings, index terms

This article considers the importance of context in mobile systems. It considers a range of context-related issues and focus on location as a key issue for mobile systems. A design framework is described consisting of taxonomies of location, mobility, population, and device awareness. The design framework inorms the construction of a semantic model of space for mobile systems. The semantic model is reflected in a computational model built on a distriuted platform that allows contextual info ...

Keywords: awareness, context information, design framework, location-sensitive applications, mobile systems, platform support, shared interaction, virtual space

13 Integrated concurrency control and recovery mechanisms: design and performance evaluation
Rakesh Agrawal, David J. Dewitt
December 1985 **ACM Transactions on Database Systems (TODS)**, Volume 10 Issue 4
Full text available: pdf(2.70 MB) Additional Information: full citation, abstract, references, citings, index terms, review

In spite of the wide variety of concurrency control and recovery mechanisms proposed during the past decade, the behavior and the performance of various concurrency control and recovery mechanisms remain largely not well understood. In addition, although concurrency control and recovery mechanisms are intimately related, the interaction between them has not been adequately explored. In this paper, we take a unified view of the problems associated with concurrency control and recovery for tr ...

14 Incremental cryptography and application to virus protection
Mihir Bellare, Oded Goldreich, Shafi Goldwasser
May 1995 **Proceedings of the twenty-seventh annual ACM symposium on Theory of computing**
Full text available: pdf(1.65 MB) Additional Information: full citation, references, citings, index terms

15 The analog divide: technology practices in public education
Torin Monahan
September 2001 **ACM SIGCAS Computers and Society**, Volume 31 Issue 3
Full text available: pdf(1.36 MB) Additional Information: full citation, references, index terms

16 RAW: conveying minimally-mediated impressions of everyday life with an audio-photographic tool
Joëlle Bitton, Stefan Agamanolis, Matthew Karau

April 2004 **Proceedings of the 2004 c nference n Human factors in computing systems**

Full text available: pdf(500.36 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper traces the development of RAW, a system combining a tool and a process for capturing and conveying audiovisual impressions of everyday life. The project aims to enable a relationship between the user of the tool and an audience in a different place or time with an absolute minimum of editorial mediation by a third party. The tool itself incorporates a digital camera and a binaural audio recording device that captures the minute of sound before and after a picture is taken. To inform t ...

Keywords: Africa, Mali, audiophotography, binaural sound recording, contextual audio, cultural exchange, everyday life, memory, multicultural studies, photography, storytelling, unedited media

17 Programming semantics for multiprogrammed computations

Jack B. Dennis, Earl C. Van Horn

March 1966 **Communications of the ACM**, Volume 9 Issue 3

Full text available: pdf(1.47 MB) Additional Information: full citation, abstract, references, citings

The semantics are defined for a number of meta-instructions which perform operations essential to the writing of programs in multiprogrammed computer systems. These meta-instructions relate to parallel processing, protecting of separate computations, program debugging, and the sharing among users of memory segments and other computing objects, the names of which are hierarchically structured. The language sophistication contemplated is midway between an assembly language and an advanced alg ...

18 Beyond the electronic book: a critique of hypertext rhetoric

Stuart Moulthrop

September 1991 **Proceedings of the third annual ACM conference on Hypertext**

Full text available: pdf(686.93 KB) Additional Information: full citation, references, citings, index terms

19 Plutarch: an argument for network pluralism

Jon Crowcroft, Steven Hand, Richard Mortier, Timothy Roscoe, Andrew Warfield

August 2003 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM workshop on Future directions in network architecture**, Volume 33 Issue 4

Full text available: pdf(209.51 KB) Additional Information: full citation, abstract, references

It is widely accepted that the current Internet architecture is insufficient for the future: problems such as address space scarcity, mobility and non-universal connectivity are already with us, and stand to be exacerbated by the explosion of wireless, ad-hoc and sensor networks. Furthermore, it is far from clear that the ubiquitous use of standard transport and name resolution protocols will remain practicable or even desirable.In this paper we propose *Plutarch*, a new inter-networking ar ...

20 A generic model for reflective design

Panagiotis Louridas, Pericles Loucopoulos

April 2000 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 9 Issue 2

Full text available: pdf(304.45 KB) Additional Information: full citation, abstract, references, index terms, review

Rapid technological change has had an impact on the nature of software. This has led to

new exigencies and to demands for software engineering paradigms that pay particular atttention to meeting them. We advocate that such demands can be met, at least in large parts, through the adoption of software engineering processes that are founded on a reflective stance. To this end, we turn our attention to the field of Design Rationale. We analyze and characterize Design Rationale approaches and s ...

Keywords: design aids, design rationale, development, participative, reflective

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1 PC Notes

Eugene Styer

July 1997 **ACM SIGICE Bulletin**, Volume 23 Issue 1

Full text available: pdf(936.83 KB) Additional Information: full citation, abstract

Now in segment ten we look at mass storage: disks, tapes and CD-ROMs.

2 Illustrative risks to the public in the use of computer systems and related technology

Peter G. Neumann

January 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 1

Full text available: pdf(2.54 MB) Additional Information: full citation

3 Magneto-optical data storage

Terry McDaniel

November 2000 **Communications of the ACM**, Volume 43 Issue 11

Full text available: pdf(397.56 KB) html(34.62 KB) Additional Information: full citation, references, index terms

4 Data entry curricula guidelines: a working paper of the Community and Junior College Subcommittee (CAJC) of the Curriculum Committee on Computer Education (C^3E)

Iva Helen Lee, Donna Hutcheson, Joyce Currie Little

September 1979 **ACM SIGCSE Bulletin**, Volume 11 Issue 3

Full text available: pdf(1.08 MB) Additional Information: full citation, references, citings

5 Setting up a VPN gateway

Duncan Napier

January 2002 **Linux Journal**, Volume 2002 Issue 93

Full text available: html(24.69 KB) Additional Information: full citation, abstract, index terms

A minimum inverstment VPN--the micro DUCLINGdistribution.

6 An efficient I/O interface for optical disks
Jeffrey S. Vitter
June 1985 **ACM Transactions on Database Systems (TODS)**, Volume 10 Issue 2

Full text available: pdf(2.55 MB) Additional Information: full citation, abstract, references, citings, index terms, review

We introduce the notion of an I/O interface for optical digital (write-once) disks, which is quite different from earlier research. The purpose of an I/O interface is to allow existing operating systems and application programs that use magnetic disks to use optical disks instead, with minimal change. We define what it means for an I/O interface to be disk-efficient. We demonstrate a practical disk- efficient I/O interface and show that its I/O performance in many cases is optimum, up to a ...

7 Disk Mainienance under Linux (Disk Recovery)
David A Bandel
January 1997 **Linux Journal**

Full text available: html(22.00 KB) Additional Information: full citation, index terms

8 Hard disk management standards in a networked environment
Paul Reince
August 1990 **Proceedings of the 18th annual ACM SIGUCCS conference on User services**

Full text available: pdf(472.88 KB) Additional Information: full citation, index terms

9 Information leakage from optical emanations
Joe Loughry, David A. Umphress
August 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 3

Full text available: pdf(362.77 KB) Additional Information: full citation, abstract, references, index terms

A previously unknown form of compromising emanations has been discovered. LED status indicators on data communication equipment, under certain conditions, are shown to carry a modulated optical signal that is significantly correlated with information being processed by the device. Physical access is not required; the attacker gains access to all data going through the device, including plaintext in the case of data encryption systems. Experiments show that it is possible to intercept data under ...

Keywords: COMINT, COMSEC, EMSEC, SIGINT, TEMPEST, communication, compromising emanations, covert channel, encryption, fiber optics, information displays, light emitting diode (LED)

10 Phase change recording
Henk van Houten, Wouter Leibbrandt
November 2000 **Communications of the ACM**, Volume 43 Issue 11

Full text available: pdf(661.19 KB) html(35.96 KB) Additional Information: full citation, references, index terms

11 The structure of microcomputer file systems
Donald Golden, Michael Pechura
March 1986 **Communications of the ACM**, Volume 29 Issue 3

Full text available: pdf(941.02 KB) Additional Information: full citation, abstract, references, citings, index terms, review

With an understanding of the structure of microcomputer file systems and what causes incompatibilities between them, it is possible to write software that will enable one system to read files written by another—provided they have physically compatible hardware.

12 Issues in the architecture of a document archiver using optical disk technology
S. Christodoulakis
May 1985 **ACM SIGMOD Record , Proceedings of the 1985 ACM SIGMOD international conference on Management of data**, Volume 14 Issue 4

Full text available: pdf(1.62 MB) Additional Information: full citation, references, citings, index terms

13 FSDS-Fairchild Software Development System
Harley Mathews, Kam Li, John Katsaros
January 1975 **Proceedings of the 1975 annual conference**

Full text available: pdf(382.72 KB) Additional Information: full citation, abstract, index terms

The Fairchild F8 Software Development System (FSDS) runs on the Fairchild F8 Microprocessor. Designed to ease the burden of developing F8 based microprocessor systems, FSDS enables testing programs in a real world environment. The FSDS system provides for generating, editing and maintaining source files, assembling user's programs, and executing routines using F8 hardware. This system was developed both for in-house Fairchild applications as well as customer based development programs.

14 File servers for network-based distributed systems
Liba Svobodova
December 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 4

Full text available: pdf(4.23 MB) Additional Information: full citation, references, citings, index terms, review

15 Analysis of retrieval performance for records and objects using optical disk technology
Stavros Christodoulakis
June 1987 **ACM Transactions on Database Systems (TODS)**, Volume 12 Issue 2

Full text available: pdf(2.09 MB) Additional Information: full citation, abstract, references, citings, index terms, review

In this paper we examine the problem of object and record retrieval from optical disks. General objects (such as images, documents, etc.) may be long and their length may have high variance. We assume that all the components of an object are stored consecutively in storage to speed-up retrieval performance. We first present an optical disk model and an optimal schedule for retrieval of records and objects which qualify in a single query on a file stored on an optical disk device. We then pr ...

16 Laser optical disk: the coming revolution in on-line storage
Larry Fujitani
June 1984 **Communications f the ACM**, Volume 27 Issue 6

Full text available: pdf(1.56 MB) Additional Information: full citation, abstract, citings, index terms

Commercially available only recently, the optical disk drive uses a laser beam to burn

impressions onto a plastic disk. Employing a highly focused beam rather than a diffuse magnetic field to write, the laser optical disk drive yields storage densities up to 10 times those of magnetic disks.

Keywords: applications for laser disk drives, laser disk drives versus magnetic disk drives, laser disks and the dawn of the information age, new technology, on-line secondary storage, on-line tertiary storage, optical disk space

17 Secondary storage and filesystems
Marshall Kirk McKusick
March 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 1
Full text available: pdf(184.43 KB) Additional Information: full citation, references, index terms

18 Optimal placement of high-probability randomly retrieved blocks on CLV optical discs
Daniel Alexander Ford, Stavros Christodoulakis
January 1991 **ACM Transactions on Information Systems (TOIS)**, Volume 9 Issue 1
Full text available: pdf(1.64 MB) Additional Information: full citation, abstract, references, index terms, review

Optimal data placement on a CLV (Constant Linear Velocity) format optical discs has an objective the minimization of the expected access cost of data retrievals from the disc when the probabilities of access of data items may be different. The problem of optimal data placement for optical discs is both important and more difficult than the corresponding problem on magnetic discs. A good data placement on optical discs is more important because data sets on optical discs such as WORM and CD ...

Keywords: management, performance

19 Is it live or is it Memorex?
Tory Sawyer, Randy Anderson, Gary McCuaig
September 1986 **Proceedings of the 14th annual ACM SIGUCCS conference on User services: setting the direction**
Full text available: pdf(2.60 MB) Additional Information: full citation, index terms

20 Evaluation of optical disk systems for very large database applications
Alan R. Hevner
August 1985 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1985 ACM SIGMETRICS conference on Measurement and modeling of computer systems**, Volume 13 Issue 2
Full text available: pdf(719.62 KB) Additional Information: full citation, abstract, references, index terms

Optical Disk Systems have significant advantages over conventional magnetic mass storage media for very large database applications. Among other features, optical disk systems offer large capacity and high transfer rate. A critical problem is how to integrate the optical disk system into a total application system environment while maintaining the high performance capabilities of the optical disk. In this paper the performance of optical disk system configurations under realistic applicatio ...

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JNL = Journal or Magazine **CNF** = Conference **STD** = Standard

1 **Catastrophic damage of magnetic recording disk caused by slider-di impact during loading/unloading**
Shoda, M.; Tani, H.;
Magnetics, IEEE Transactions on , Volume: 39 , Issue: 2 , March 2003
Pages:893 - 897

[Abstract] [PDF Full-Text (2171 KB)] **IEEE JNL**

2 **The effect of disk platter resonances on track misregistration in 3.5 disk drives**
McAllister, J.S.;
Magnetics, IEEE Transactions on , Volume: 32 , Issue: 3 , May 1996
Pages:1762 - 1766

[Abstract] [PDF Full-Text (456 KB)] **IEEE JNL**

3 **Overlapped disk access for real-time disk I/O**
Hwang, K.; Chang Yeol Choi;
Real-Time Computing Systems and Applications, 1999. RTCSA '99. Sixth International Conference on , 13-15 Dec. 1999
Pages:263 - 269

[Abstract] [PDF Full-Text (720 KB)] **IEEE CNF**

4 **Design of media description language for media instantiation, c mp siti n and transp rtati n**
Mitsuishi, T.; Nunokawa, H.;
Parallel Processing, 1999. Proceedings. 1999 International Workshops on , 21 Sept. 1999
Pages:454 - 459

[Abstract] [PDF Full-Text (144 KB)] IEEE CNF

5 **Evaluati n f active disks f r decisi n supp rt databases**
Uysal, M.; Acharya, A.; Saltz, J.;
High-Performance Computer Architecture, 2000. HPCA-6. Proceedings. Sixth International Symposium on , 8-12 Jan. 2000
Pages:337 - 348

[Abstract] [PDF Full-Text (104 KB)] IEEE CNF

6 **A comprehensive analytical performance model for disk devices und random workloads**
Triantafillou, P.; Christodoulakis, S.; Georgiadis, C.A.;
Knowledge and Data Engineering, IEEE Transactions on , Volume: 14 , Issue: 1 , Jan.-Feb. 2002
Pages:140 - 155

[Abstract] [PDF Full-Text (277 KB)] IEEE JNL

7 **Tribo-magnetics and nanometer spaced head-disk systems**
Bo Liu; Zhi-Min Yuan; Yi-Jun Man;
Magnetics, IEEE Transactions on , Volume: 37 , Issue: 2 , March 2001
Pages:918 - 923

[Abstract] [PDF Full-Text (144 KB)] IEEE JNL

8 **Analysis of repair algorithms for mirrored-disk systems**
Kari, H.H.; Saikkonen, H.K.; Park, N.; Lombardi, F.;
Reliability, IEEE Transactions on , Volume: 46 , Issue: 2 , June 1997
Pages:193 - 200

[Abstract] [PDF Full-Text (728 KB)] IEEE JNL

9 **Dynamic load head-disk interface durability of 50 percent sliders an polished disks**
Ta-Chang Fu; Bogy, D.B.;
Magnetics, IEEE Transactions on , Volume: 32 , Issue: 5 , Sept. 1996
Pages:3747 - 3749

[Abstract] [PDF Full-Text (344 KB)] IEEE JNL

10 **A study of characteristics of disk vibration and rotating airflow in magneto optical disk drives**
Sookyung Kim; Gyuhyeon Han; Heuigi Son;
Consumer Electronics, IEEE Transactions on , Volume: 44 , Issue: 3 , Aug. 19
Pages:601 - 605

[Abstract] [PDF Full-Text (588 KB)] IEEE JNL

11 **Tape-disk j in strategies under disk c ntenti n**
Kraiss, A.; Muth, P.; Gillmann, M.;
Data Engineering, 1999. Proceedings., 15th International Conference on , 23-

March 1999
Pages:552 - 559

[Abstract] [PDF Full-Text (2132 KB)] **IEEE CNF**

12 **Taming disk and spindle rocking by damped laminated disks-an experimental study**
Heo, B.; Shen, I.Y.;
Magnetics, IEEE Transactions on , Volume: 35 , Issue: 5 , Sept. 1999
Pages:2304 - 2306

[Abstract] [PDF Full-Text (236 KB)] **IEEE JNL**

13 **Effect of disk roughness on slider dynamics**
Best, G.L.; Deckert, K.L.; Millman, S.E.; Singh, G.P.;
Magnetics, IEEE Transactions on , Volume: 24 , Issue: 6 , Nov 1988
Pages:2748 - 2750

[Abstract] [PDF Full-Text (292 KB)] **IEEE JNL**

14 **Methods for improved update performance of disk arrays**
Menon, J.; Kasson, J.;
System Sciences, 1992. Proceedings of the Twenty-Fifth Hawaii International Conference on , Volume: i , 7-10 Jan. 1992
Pages:74 - 83 vol.1

[Abstract] [PDF Full-Text (644 KB)] **IEEE CNF**

15 **A preemptive priority-based disk I/O subsystem for the manageme hard real-time disk traffic**
Molano, A.; Rodriguez Hernandez, P.S.; Vina, A.;
Real-Time Systems, 1997. Proceedings., Ninth Euromicro Workshop on , 11-1 June 1997
Pages:110 - 119

[Abstract] [PDF Full-Text (836 KB)] **IEEE CNF**

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1 **A low power charge sharing ROM using dummy bit lines**
Byung-Do Yang; Lee-Sup Kim;
Circuits and Systems, 2003. ISCAS '03. Proceedings of the 2003 International Symposium on , Volume: 5 , 25-28 May 2003
Pages:V-377 - V-380 vol.5

[Abstract] [PDF Full-Text (357 KB)] **IEEE CNF**

2 **An error pattern ROM compression method for continuous data**
Byung-Do Yang; Lee-Sup Kim;
Circuits and Systems, 2004. ISCAS '04. Proceedings of the 2004 International Symposium on , Volume: 2 , 23-26 May 2004
Pages:II - 845-8 Vol.2

[Abstract] [PDF Full-Text (288 KB)] **IEEE CNF**

3 **CD-ROM technology takes off**
Bournellis, C.;
Computer , Volume: 28 , Issue: 7 , July 1995
Pages:11 - 12

[Abstract] [PDF Full-Text (428 KB)] **IEEE JNL**

4 **A low power charge-recycling ROM architecture**
Byung-Do Yang; Lee-Sup Kim;
Circuits and Systems, 2001. ISCAS 2001. The 2001 IEEE International Sympo on , Volume: 4 , 6-9 May 2001
Pages:510 - 513 vol. 4

[Abstract] [PDF Full-Text (368 KB)] **IEEE CNF**

5 **Ultra-high speed HBT sine ROM f r direct digital synthesis applicatic**
Chung-Yin Kwok; Neng-Haung Sheng; Asbeck, P.; Kent, G.; Chen, S.;
Aerospace and Electronics Conference, 1994. NAECON 1994., Proceedings of t
IEEE 1994 National , 23-27 May 1994
Pages:461 - 467 vol.1

[Abstract] [PDF Full-Text (412 KB)] IEEE CNF

6 **A low-power ROM using charge recycling and charge sharing techni**
Byung-Do Yang; Lee-Sup Kim;
Solid-State Circuits, IEEE Journal of , Volume: 38 , Issue: 4 , April 2003
Pages:641 - 653

[Abstract] [PDF Full-Text (867 KB)] IEEE JNL

7 **Efficient rank-ordered mean (ROM) techniques for the recovery f isolated losses in highly corrupted images**
Hasan, M.; Marvasti, E.;
Communications Letters, IEEE , Volume: 4 , Issue: 10 , Oct. 2000
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